

ABSTRACT

5 A high power inverter using toroidal transformer with a first end and a second end. A
first and second switch for switching the first end and the second end of the transformer
primary alternately to ground during alternate half cycles for first and second on-time
intervals. A pulse-width modulator and driver circuit for driving the first and second
switch into conduction and for modulating the first and second on time intervals. A non-
10 conductive interval is interposed between switch on-times. A control circuit for
sensing the output voltage to maintain the output voltage within a predetermined range.
An acoustic reference for a clock circuit, the clock circuit controlling the start of each
power cycle. A current sense circuit for signaling overload when the on-voltage across
the switching means exceeds a predetermined threshold. A switch for connecting the
15 first and second ends of the transformer primary together during on-times.

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SHOWING.CHANGES MADE BY FIRST AND SECOND AMENDMENTS
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